

## MMHCC Newsletter Summer 2007

### MouseLine

#### Symposium in Celebration of 100 Years of Mouse Genetics

On June 11th, the Boston scientific community enjoyed a day of presentations from leaders in mouse genetics research. The NCI-MMHCC co-sponsored a symposium, "100 Years of Mouse Genetics" to honor Dr. Clarence Cook Little. As a Harvard undergraduate from 1906 – 1910, Little developed a genetically uniform line of mice from the DBA strain. Ahead of his time, Little realized the importance of inbred mice; he later produced the C57BL line. In 1922, Little became the president of the University of Maine; while there, he established a summer laboratory in Bar Harbor, Maine. From 1925-29, he was president of the University of Michigan; when he left, he persuaded auto industry tycoons Edsel Ford and Roscoe B. Jackson to finance a research facility near Bar Harbor. When Jackson died, the Laboratory was renamed in his honor. Using the new, highly inbred mouse strains, Little expanded on his graduate studies on tissue transplantation, showing that there are multiple genes (later named histocompatibility genes) for susceptibility and resistance to transplanted tumors.



Maintaining the Laboratory during the Great Depression was a challenge; Little's exceptional fund-raising skills and selling the laboratory's inbred strains to researchers provided income. A disastrous fire in 1947 destroyed the buildings and the mouse colonies. Little was determined to rebuild; donations of strains came from around the world, and Little found many donors to finance the Laboratory's reconstruction. During his career, he published 188 science papers and three books, and received numerous honorary degrees. He was a member of the American Academy of Arts and Sciences, was elected to the National Academy of Sciences in 1945, was twice elected president of the American Association of Cancer Research, and was appointed in 1937 to the initial National Cancer Council for the newly established National Cancer Institute.

Quoting from the May, 2000 issue of *Nature*:

"At least 17 Nobel prizes, two major scientific tools (monoclonal antibodies and gene-targeted strains), profound scientific insights into the immune system, retroviruses, oncogenes, cancer, the inheritance of complex traits, and countless scientific experiments have flowed from [Little's] inbred, or 'isogenic', strains....." These seminal contributions to science, and establishing and sustaining The Jackson Laboratory, are Clarence Cook Little's enduring legacies.



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[tarnowsb@mail.nih.gov](mailto:tarnowsb@mail.nih.gov) Send meeting announcements and other information you would like to  
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## Meetings

**July 12 – 14, 2007**

**Frontiers in Genome Engineering: Building a Better Mouse (BBM) II Conference**

Nashville, Tennessee

Meeting Information: <http://www.vscsb.org/bbm>

**July 15 – 22, 2007**

**AACR-Pathobiology of Cancer: The Edward A. Smuckler Memorial Workshop**

Snowmass, Colorado

Meeting Information: <http://www.aacr.org/home/scientists/meetings--workshops/educational-workshops--special-courses/pathobiology-of-cancer-the-edward-a-smuckler-memorial-workshop.aspx>

**July 15 – 27, 2007**

**48th Annual Short Course in Medical and Experimental Mammalian Genetics**

Bar Harbor, Maine

Meeting Information: <http://www.jax.org/courses/events/coursedetails.do?id=441&detail=scope>

**July 25 – 27, 2007**

**Symposium: Pathology of Genetically Engineered Rodents and Aquatic Species, an Introduction to Phenotyping**

Madison, Wisconsin

Meeting Information: <http://www.cldavis.org/courses/upcoming.html#10>

**July 28 – August 3, 2007**

**AACR-Methods in Clinical Cancer Research**

Vail, Colorado

Meeting Information: <http://www.vailworkshop.org/>

**August 6 – 9, 2007**

**IBC's 12th Annual Drug Discovery & Development of Innovative Therapeutics**

Boston, Massachusetts

Meeting Information: <http://www.drugdisc.com>

**August 14 – 15, 2007**

**Cambridge Healthtech Institute - Enabling Point-of-Care Diagnostics**

Washington, D.C.

Meeting Information: <http://www.healthtech.com/2007/POC>





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## Meetings cont.

**August 15 – 17, 2007**

**Cambridge Healthtech Institute 7th Annual New Applications for Microarray Data Analysis:  
Integrating Genetics with "Omics"**

Washington, D.C.

Meeting Information: <http://www.healthtech.com/2007/MDA/>

**August 19 – 26, 2007**

**16th Annual Short Course on Experimental Genetics of the Laboratory Mouse In Cancer  
Research**

Bar Harbor, Maine

Meeting Information: <http://www.jax.org/courses/events/coursedetails.do?id=444&detail=scope>

**September 7 – 11, 2007**

**Joint Molecular Imaging Conference 2007**

Providence, Rhode Island

Meeting Information: <http://www.molecularimaging.org/2007jointconf/home07.php>

## Funding Opportunities

**Biology of Breast Pre-Malignancies (R01)**

RFA-CA-07-047

National Cancer Institute

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-07-047.html>

**Mouse Models Containing Human Alleles: Novel Tools to Study Brain Function  
(Phased Innovation Award [R21/R33])**

RFA-MH-08-050

National Institute of Mental Health

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-08-050.html>



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## caBIG™ Tools



**Intended for** Microarray data producers and application developers

**Areas of focus include** Microarray Expression Analysis

**Architecture Type:** Web Application - Remote application with data uploads/downloads through web interface

caArray is an open source microarray data management system that allows users to submit, annotate and download microarray data. caArray was developed using the caBIG compatibility guidelines, as well as the Microarray Gene Expression Data (MGED) society standards for microarray data. Compatibility with these standards and guidelines will facilitate data sharing and integration of diverse data types including clinical, imaging, tissue and functional genomics data. A number of analytical tools that connect to caArray are already available, including geWorkbench and GenePattern that provide a variety of data analyses, visualization and annotation functions for microarray and other data types.

The application can be found at: <https://caarraydb.nci.nih.gov/caarray/>

User guide and the technical documentation are available at <http://caarraydb.nci.nih.gov/caarray/>

For more information visit: <https://cabig.nci.nih.gov/tools/caArray>

## NEWS

**caArray version 1.5 was release in June 2007.**

**Selected New Features and Updates are:**

- Enhanced Data File Loading
- User Management Module  
Users with the appropriate submissions will see the "User Management" button on successful login. Logged in users can search for existing caArray users, create new users, and modify existing users. Logged in users can also search groups, create new groups, and modify existing groups.
- Improved Security
- For detailed information see the release notes  
[https://caarraydb.nci.nih.gov/caarray/caarray\\_release\\_notes.txt](https://caarraydb.nci.nih.gov/caarray/caarray_release_notes.txt)



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